



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas

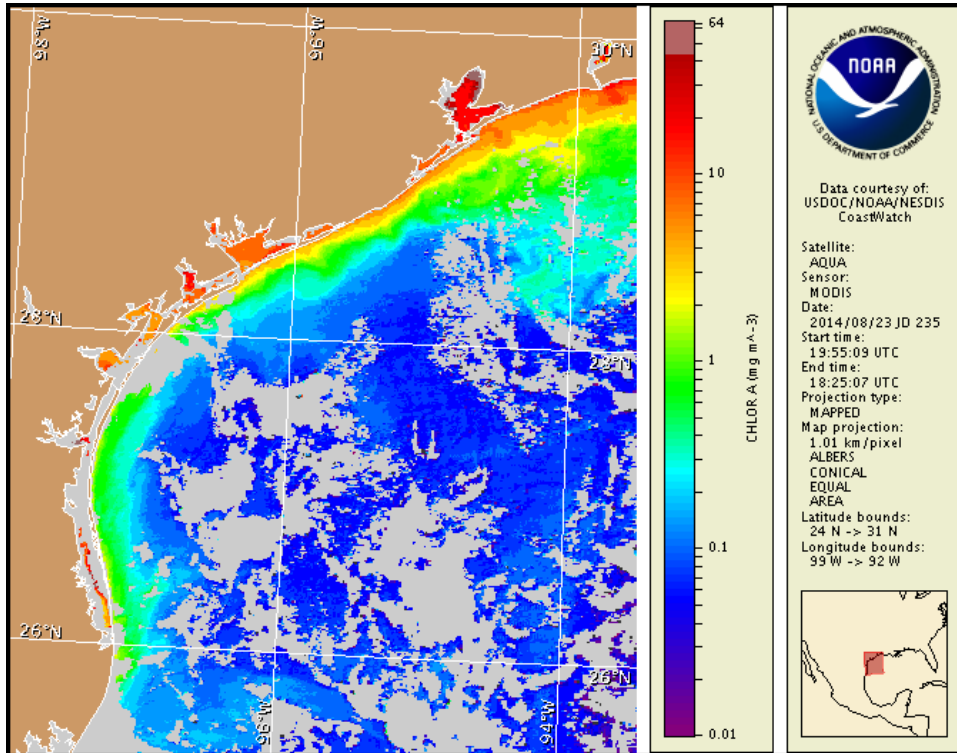
Monday, 25 August 2014

NOAA National Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, August 18, 2014



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from August 15 to 21: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf

Detailed sample information can be obtained through the Texas Parks and Wildlife Department at:

<http://www.tpwd.state.tx.us/landwater/water/enviroconcerns/hab/redtide/status.phtml>

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive:

<http://tidesandcurrents.noaa.gov/hab/bulletins.html>

Conditions Report

There is currently no indication of *Karenia brevis* (commonly known as Texas red tide) along the coast of Texas. No respiratory irritation is expected Monday, August 25 through Tuesday, September 2.

Check http://tidesandcurrents.noaa.gov/hab/beach_conditions.html for recent, local observations.

Analysis

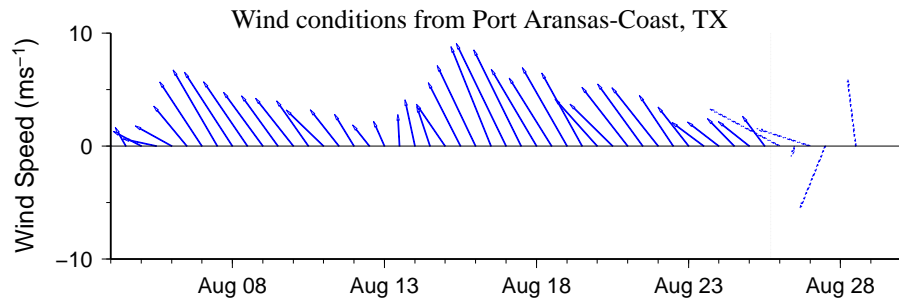
****Due to the upcoming federal holiday, the next bulletin will be issued on Tuesday, September 2.****

There is currently no indication of *Karenia brevis* along the coast of Texas. For information on area shellfish restrictions, contact the Texas Department of State Health Services.

Recent MODIS Aqua imagery (8/23, shown left) is partially obscured by clouds along- and offshore from Mustang Island to Matagorda Island, limiting analysis in this region. Elevated chlorophyll (2-8 $\mu\text{g/L}$) is visible stretching along- and offshore from Sabine Pass to the Rio Grande. Elevated chlorophyll is most likely not indicative of the presence of *K. brevis* and is probably due to the resuspension of benthic chlorophyll and sediments along the coast.

Forecast models based on predicted near-surface currents indicate a potential negligible transport (<10 km) north from the Port Aransas region from August 23-28.

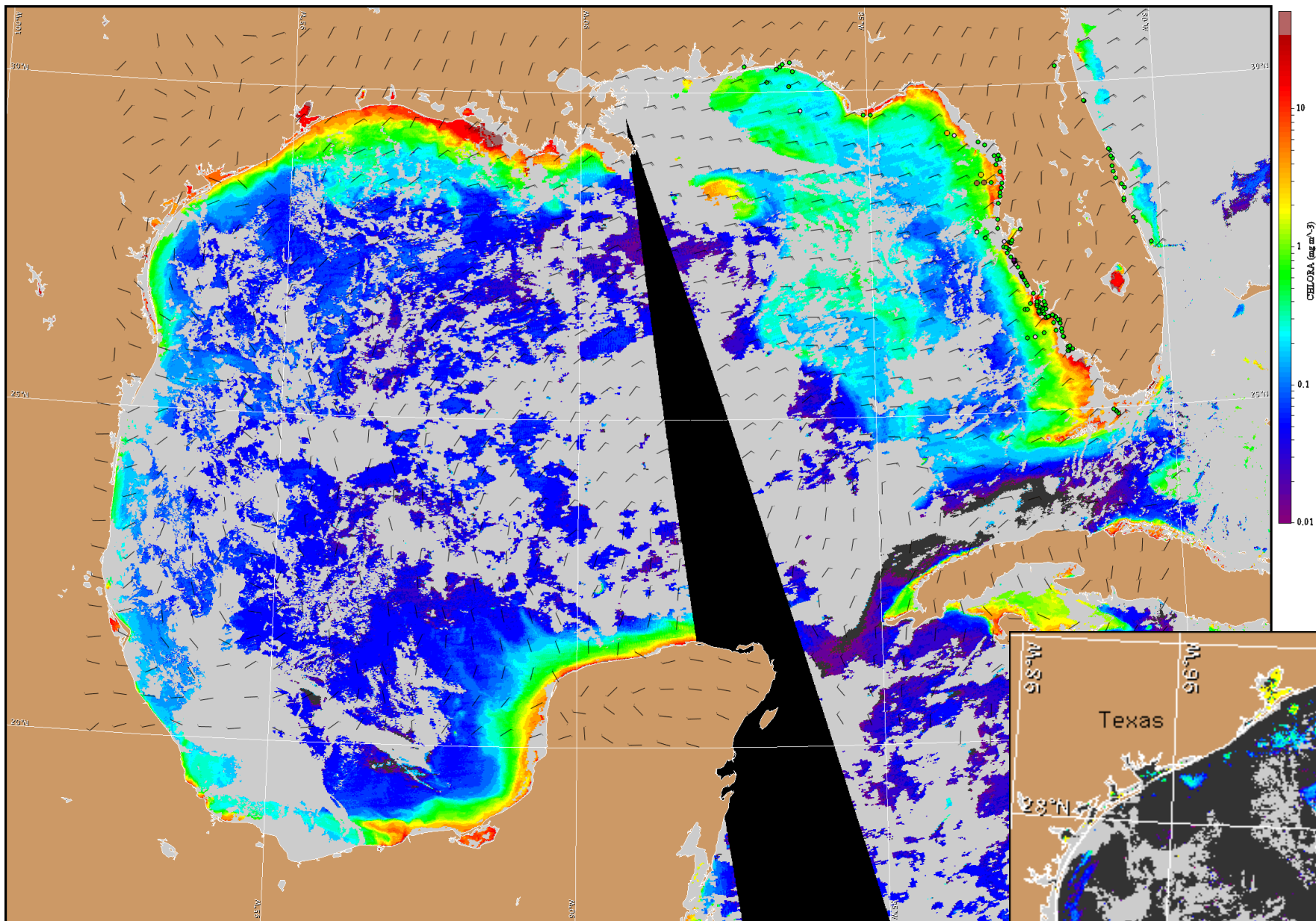
Schneider, Derner, Kavanaugh



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

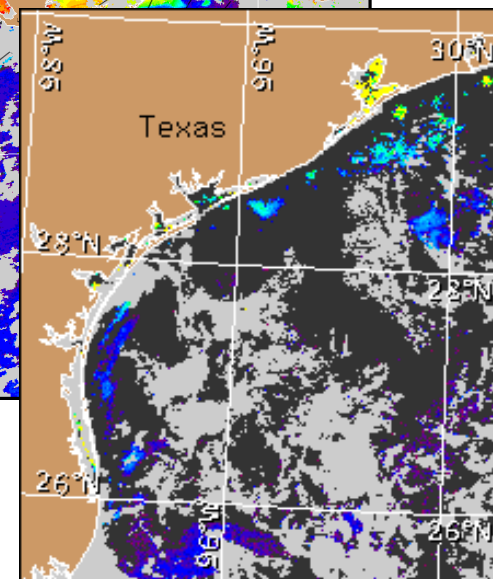
Wind Analysis

Port Aransas: South winds (5kn, 3m/s) today shifting to east early in the afternoon. Southeast winds (10kn, 5m/s) tonight shifting south after midnight. North winds (5kn) Tuesday becoming east winds (5-15kn, 3-8m/s) Tuesday afternoon through Tuesday night. Northeast winds (5-10kn, 3-5m/s) Wednesday becoming east (10-15kn 5-8m/s) Wednesday afternoon. Southeast winds (10-15kn) Wednesday night. East winds (5-10kn) Thursday. South winds (5-15kn) Friday.



Satellite chlorophyll image and forecast winds for August 26, 2014 12Z with points representing cell concentration sampling data from August 15 to 21: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

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Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).